# Determination of Public Land (Rangeland) Health for 64053 JAMES CLIETT

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the James Cliett Allotment #64053 meet the Upland Sites Standard and (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard. There are no Public Land riparian areas on this allotment, therefore this Standard will not addressed.

/s/ T. R. KREAGER

09/22/2003

Assistant Field Manager

Date

# Standards of Public Land Health Evaluation of 64053 JAMES CLIETT Allotment [ 09/02/2003 ]

TheRoswell Field Office conducted rangeland health assessments at three study sites within the JAMES CLIETT Allotment #64053. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area	tudy Area UPLAND				BIOTIC		RIPARIAN		
or Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
64053-BIG- E100 (*)	X	*		X			N/A		
64053- NORTH-E099	X			X			N/A		
64053-RIVER- E098	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the James Cliett Allotment 64053; 10 of these assessed met Ranch; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on three study areas, were utilized to assess the rangeland health of the public land within the allotment. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

Drought conditions have had an impact on the allotment over the last few years. Assessments were performed on 3 trend plot/study sites, corresponding to 3 pastures on the allotment. North, River and Big Pastures were assessed; SD-3 gyp upland, loamy and salt flats respectively. The slat flats ecological site (Big Pasture) is located off US highway 70. This pasture is mostly a grassland aspect with tobosa (Pleuraphis mutica), and alkali sacaton (Sporobolus airoides) dominating. This area has a Hollomex soil phase, 50 cm in depth. There is currently no livestock use or past evidence of use this growing season. Tobosa swales are evident where there is a greater amount of runoff into these areas. Pedestals and /or terracettes show slight active pedestalling on the upland area, especially elevating tobosa plants as well as dropseed. This indicator was rated as Moderate. Bareground is being estimated to be approximately 70%, exceeding the ESD

of 60% and the long-term average of 49%. A Moderate to Extreme rating was given to this indicator. Functional/structural groups rated in the Moderate category, with F/S groups such as alkali sacaton and black grama (Bouteloua eriopoda) being reduced and replaced by other subdominant groups, ie. tobosa and dropseeds, as the ESD indicates. Long-term datum also supports this rating. Litter amount is only estimated at 10% and was rated at Moderate. Annual production is only 1/2 of the long-term average and 1/4 of the maximum potential for the ESD, resulting in a rating in the Moderate category. Invasive plants rated in the Moderate category with prickly pear (Opuntia spp.) scattered throughout the site. The reproductive capability of perennial plants also rated in the Moderate category. There is limited tiller and seed head formation and the propogation potential will be limited to seed previously produced and currently existing in the soil substratum. With precipitation events occurring at the appropriate time, as well as the dormant season, the reproductive potential should improve for those species. Physical crusts are evident throughout, with some broken continuity on the biological crusts. The physical crusts however are holding the soil in place until favorable precipitation events occur. This indicator rated in the Slight to Moderate category. All other indicators rated None to Slight to Slight to Moderate.

The River Pasture, the SD-3 loamy ecological site with an Alama-Poquita soil phase rated all indicators in the None to Slight to Slight to Moderate category, with the exception of invasive plants, rating in the Moderate category. Cholla (Opuntia imbricata) is observed only scattered throughout. The site covers approximately 200 acres on the upland side of the allotment. This area provides excellent habitat for pronghorn (Antilocapra americana), which can be observed in this pasture. The grass, forb and shrub components are condusive to this and other wildlife species. The area possesses a good mixture of grass, forb and shrub components. Only slight modifications exist from the ESD structural/functional groups, and the long-term datum. The timely rainfall events during the summer of 2003 have improved this site's potential and overall condition. The livestock have been removed in the spring of this year due to the rotational scheme. The use is mainly in the winter time from approximately November thru February. There is nothing inhibiting the reproductive capability of any of the perennial species present, with healthy seed/tiller formation. There is however a proposed oil and gas well staked just south of this pasture, which may compromise some wildlife habitat and forage potential for livestock.

The North Pasture, a CP-2 gyp upand ecological site, is made up of very shallow gyp soil. The area covers approximately 613 acres, with a Hollomex-Reeves-Milner soil phase. This area rated water flow patterns, which are slope dependent on this site, in the Moderate category. There is some erosion and soil deposition, largely due to the natural make-up of the soil itself. There is some slight active pedestaling on the plants present, and this largely is due also to the slope dependence of this particular site. This indicator rates Moderate. Bareground is estimated at approximately 60-70%. This exceeds the upper expected range for the ESD at 45%. Long-term datum however indicates a range from 55-88% with an average of 67%, resulting in a Moderate rating. There is some expected channelization on this site as the gullying potential is slope dependent as well. There is however no sign of active headcuts or nickpoints. Vegetation is still stabilizing

the slopes. This indicator rated Slight to Moderate. Soil surface resistance to erosion rates at Moderate. There is some reduction in resistance in the interspaces as well as the plant canopy, using the soil site stability test. The percent litter estimated, falls in the bottom end of the range expected for the ESD. Eight percent is the long-term average, and rates Moderate. Annual production is 1/2 of ESD for normal years and rated in the Moderate category also. Dry conditions have contributed to the reduced productive potential. Invasive plants rated Moderate with mesquite (Prosopis glandulosa) scattered throughout. All other indicators rate None to Slight to Slight to Moderate. The vegetation present is representative of a gyp upland site, with coldenia (Coldenia spp.), gyp grama (Bouteloua brevesita) and gyp dropseed (Sporobolus nealleyi) on site. The roads leading into this pasture follow oil and gas pipeline routes and the compaction layer associated with this activity covers 5-10% of the surface. This indicator rated in the Slight to Moderate category. There is no current livestock use in this pasture at the moment.

The drought and wind and water erosion in the area of the Big has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the occurrence of pedestalling on plants and rocks and also increased the percentage of bare ground. The indicators for pedestalls rated as moderate. The indicators for bare ground rated as moderate to extreme. The drought and wind and water erosion in the area of the Big has had a minor affect on the soils and hydrologic indicators which rated as none to slight and slight to moderate. These indicators are rills, water flow patterns, gullies, wind scoured blowouts and/or depostions areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community compositon and distribution relative to infiltration and runoff, compaction layer, litter amount and physical crusts. Rock outcrops of gypsum and dolomite occurr in the area from the Seven Rivers Formation. Quaternary alluvium deposits outcrop in the area. Quaternary terrace gravels deposits outcrop in the area. The HOLLOMEX soils in the area are underlain by gypsum, mudstone, and dolomite of the Seven Rivers Formation, Quaternary alluvium deposits, and Quaternary terrace gravel deposits.

The water erosion is minor in the area of the North. The drought and wind and water erosion in the area has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the occurrence of pedestalling on plants and rocks. Water and wind has eroded the soils which has the affect of elevating the plants and rocks to form pedestalls. The drought and water and wind erosion in the area has possibly increased the amount of bare ground. The drought and wind and water erosion and other factors have reduced the stabilizing agents such as aggregated organic matter at surface and decreased the adhesion of organic matter to surface soils Rock outcrops of gypsum and dolomite occurr in the area from the Seven Rivers Formation. Quaternary alluvium deposits outcrop in the area. Quaternary terrace gravels deposits outcrop in the area. The HOLLOMEX soils in the area are underlain by gypsum, mudstone, and dolomite of the Seven Rivers Formation, Quaternary alluvium deposits, and Quaternary terrace gravel deposits.

It is the professional opinion of the Assessment Team that the public land within this allotment meets the Upland and Biotic standards.

The (\*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

• Bare Ground

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

**Recommendations:** Monitoring should continue on this allotment and up to date datum is necessary. The allotee deploys a grazing rotation which is advantageous to the health of the range, both public as well as private land.

RFOs	Upland	l and Biotic Standa	rd Asses	sment S	ummary	Workshe	eet
		SITE 640	53-BIG-	E100			
Legal La	nd Desc	SENE 24 0090S 0240 Meridian 23	Е		Acreag	ge 3933	
	Ecosite	042CY036NM SALT SD-3			Photo Take	en Y	
Wa	atershed	13060007010 GOPHE	3060007010 GOPHER				
Ol	oservers	SPAIN/NAVARRO/N	<b>ICGEE</b>	Obse	rvation Da	te 09/09/2	003
Cou	nty Soil Survey	NM644 CHAVES NO	M644 CHAVES NORTH		il Var/Taxa	ıd	
Soil M	Iap Unit	HhA		Soil	Гахоп Nan	ne HOLLO	OMEX
Textu	re Class	NM644 L			Soil Phas	se HOLLO	OMEX
Texture N	Modifier	NM644 LOAM					
	ved Avg Annual ipitation			Observed A Growing Seas Precipitati		on	
	A Annual cripitation 11.8			AA Growin Precipitatio	U	7.46	
	AA Avg Annual ipitation	11.89			vg Growin		9.54
Disturbar Anin	nces and nal Use:						
Part 2. Att	ributes a	and Indicators					
					ological Sit		
Attribute	Indicate	ors	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:							
SH	Water I	Flow Patterns				X	
Comments:	Drough	t effects					
SH	Pedesta	ls and/or Terracettes			X		
Comments:		ry conditions have left to and water erosion.	the vegeta	ition some	what subje	ct to possi	ble
SH	Bare G	round		X			

Comments:	Percent bareground exceeds th	e upper expe	cted range for the	ESD.	
SH	Gullies				X
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas			X	
Comments:					
Н	Litter Movement			X	
Comments:	Litter being displaced and is st	arting to gath	er against obstru	ctions.	
SHB	Soil Surface Resistance to Erosion			X	
Comments:	Reduction in soil surface stabil canopy.	lity in intersp	aces. Not as pron	ounced u	nder
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:			•		
SHB	Compaction Layer				X
Comments:	No livestock trails seen.				
В	Functional/Structural Groups		X		
Comments:	Tobosa (Pleuraphis mutica) an grasses. Some globemallow (S	1 \	1 11 /	are the do	minant
В	Plant Mortality/Decadence			X	
Comments:	20-30% mortality.				
НВ	Litter Amount		X		
Comments:	Very little litter present; approagainst obstructions. Dry cond season precipitation have augn	itions and the	absence of adeq		
В	Annual Production		X		
Comments:	There is about 250-300 lbs/ac	or 250-300 kg	g/ha at the presen	t time.	
В	Invasive Plants		X		
Comments:	Prickly pear (Opuntia spp.) is t	the species of	shrub scattered t	hroughou	t.
В	Reproductive Capability of Perennial Plants		X		

S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts holding soils in only in scattered patches.	n place. S	ome biolog	gical crusts	are evider	nt but
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
attributes be	Summary - Each of the indicate of the indicate of the indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	1	5	3
Н	Hydrologic	0	1	2	5	3
В	Biotic	0	0	5	5	3
table above More Info, a Values from determination ID team con lead to the control of the contro	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Nor the table are summarized below. This space should most certaflicts with the summarized valletermination. X out the appropriate determination by the ID team.  Rationale	ne to Slight ow. Space tainly be uses. Provertiate box	nn, Modera ht merge to is provide used when ide the sou	te become form the d for ration the determances of info	s <i>May Nee Meets</i> colunale of the dination by cormation the	the

			Info	
Soil	Bareground is currently at 70% or so. Dry conditions have contributed to the absence of perennial plant cover and litter. This soil /hydrologic attribute condition can be improved with favorable precipitation events.	1	1	8
Hydrologic	This is not a riparian issue. However the salt flat area should be refered to the upland rationale for determination.	1	2	8
Biotic		0	5	8
Site Notes:				

		SITE 64053	LNOR'	TH_FN99			
Legal Land Г	Desc	NWNE 1 0090S 0240E Meridian 23	-NOR		Acreage	613	
Eco	OITO	070RV066NM GVP LIP	LAND	Photo	Taken	Y	
Waters	shed	13060005070 SALT					
Obser	vers	SPAIN/NAVARRO/MC	GEE	Observation	on Date	09/12/2003	
County Sur	Soil rvey	NM644 CHAVES NOR	ТН	Soil Va	-/Taxad		
Soil Map 1	Unit	HMA	Soil Taxon Name		n Name	HOLLOME	X
Texture C	Class	NM644 L		Soi	1 Phase	HOLLOME REEVES- MILNER	X-
Tex Mod	ture ifier	NM644 LOAM,DRY					
Observed And Precipita	nual			Growing	ed Avg Season pitation		
	NOAA Annual Precipitation		11.8	NOAA G	rowing Season pitation		7.40
NOAA Ann Ann Precipita	nual		11.89	Growing	AA Avg Season pitation		9.54
		There is some oil and ga pipelines. No animal dist					
Part 2. Attri	bute	s and Indicators					
			_	ure from Eco otion/Ecolog	_	Site erence Areas	l
Attribute I	Indic	ators	Extrem	Moderate to Extreme	Modera	Slight to Moderate	None to Sligh
S H I	Rills					X	
Comments:							
S H	Wate	r Flow Patterns			X		
Comments: S	Slope	denendent					

SH	Pedestals and/or Terracettes			X		
	Some active pedestaling.			21		
S H	Bare Ground			X		
	Now at 60-70%.			Λ		
					V	
SH	Gullies	1. 4.	4 1		X	
Comments:	Slope dependent; some channel	lization ex	spectea.			
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:	Litter is everywhere and scatte	red.				
SHB	Soil Surface Resistance to Erosion			X		
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer				X	
Comments:	Oil and gas activity as evidence	ed by the	roads.			
В	Functional/Structural Groups				X	
Comments:	Coldenia (Coldenia spp) seen a	along with	other gyp	plants.		
В	Plant Mortality/Decadence					X
Comments:			·			
НВ	Litter Amount			X		
Comments:						
В	Annual Production			X		
Comments:			'		<i>.</i>	
В	Invasive Plants			X		
Comments:	Mesquite (Prosopis glandulosa	a) scattered	d.			-
В	Reproductive Capability of Perennial Plants				X	
Comments:						

S	Physical/Chemical/Biological Crusts					X
Comments:	Physical crusts seen.					
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
attributes be	Summary - Each of the indicated with Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	4	4	2
Н	Hydrologic	0	0	5	6	0
В	Biotic	0	0	4	6	3
table above <i>More Info</i> , a Values from determination ID team conlead to the control of the contr	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Non the table are summarized below. This space should most certafficts with the summarized valletermination. X out the appropria determination by the ID team.	ne to Slightow. Space tainly be uses. Provertiate box	nn, Modera ht merge to is provide used when ide the sou	te become form the d for ration the determ rees of infe tribute to	s May Need Meets columate of the ination by ormation the denote final	d mns. the
Attribute	Rationale			Does Not Meet	Need More Info	Meets

Soil	0	4	6
Hydrologic	0	5	6
Biotic	0	4	9

Site Notes: The site is in a gyp upland area and the oil and gas activity, ie, roads and pipelines have affected a portion of this ecological site.

111 05	C pium	a and brotte standa	1 4 1 1 1 5 5 6 5	Joint one of	, , , , , , , , , , , , , , , , , , ,	,, 01 115111	
		SITE 6405.	3-RIVE	R-E098			
Legal Lan	d Desc	SWNE 4 0090S 0250E Meridian 23	,		Acreag	ge 199	
]	Ecosite	042CY007NM LOAM	Y SD-3	I	Photo Take	n Y	
Wat	tershed	13060005080 MACHO	)				
		SPAIN/NAVARRO/MCGEE Observation Dat		te 09/12/20	003		
Coun	ty Soil Survey	NM644 CHAVES NO	RTH	Soi	l Var/Taxa	d	
Soil Ma	ap Unit	APA Soil Taxo		Taxon Nam	e ALAMA	4	
Textur	e Class	NM644 FSL			Soil Phas	ALAMA POQUI	
Texture M	odifier	NM644 DRY					
	ed Avg Annual oitation		Growing Se		oserved Av wing Seaso Precipitation	n	
NOAA A	Annual oitation		11.8		AA Growin Precipitatio	- 1 Δr	
1	A Avg Annual oitation			vg Growin Precipitatio		9.54	
		There is a proposed gas the biotic and hydrolog				y compron	nise
Part 2. Attı	ributes	and Indicators					
					ological Sit		
Attribute	Indicat	ors	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh
SH	Rills						X
Comments:						ı	
SH	Water	Flow Patterns				X	
Comments:	1						
SH	Pedest	als and/or Terracettes				X	
511						,	
	Some s	slight pedestaling.					

RFOs Upland and Biotic Standard Assessment Summary Worksheet

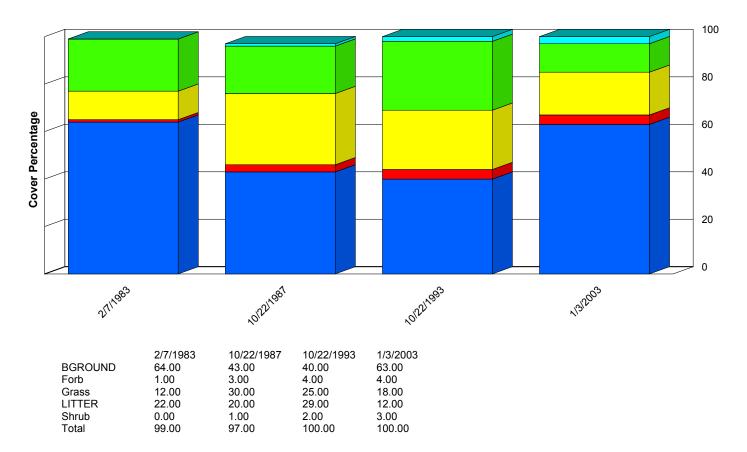
Comments:	now estimates show 50%.					
SH	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement					X
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:						
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:						
В	Annual Production				X	
Comments:						
В	Invasive Plants			X		
Comments:	Cholla (Opuntia imbricata) sca	ittered thr	oughout.			
В	Reproductive Capability of Perennial Plants					X
Comments:	All plants have vigorous grow have good reproductive potent		ality. All g	rasses, incl	uding for	bs
S	Physical/Chemical/Biological Crusts					X

Comments:	Physical crusts evident.					
В	Wildlife Habitat				X	
Comments:	Pronghorn (Antilocapra amerithis species.	cana) can	be seen ar	nd the habit		e for
В	Wildlife Populations				X	
Comments:	Populations of pronghorn (An	tilocapra a	americana)	, are thrivi	ng.	
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
	elow. An indicator is placed in a Standard Attributes.	a category		) above an	u summed	
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	5	5
Н	Hydrologic	0	0	0	6	5
В	Biotic	0	0	1	7	5
table above <i>More Info</i> , a Values from determination ID team corlead to the correct to the correct team to the correct team correct tea	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Nor the table are summarized below. This space should most cert afficts with the summarized valletermination. X out the appropria determination by the ID team.	ne to Slight ow. Space tainly be uses. Provintate box	in, Modera nt merge to is provide used when ide the sou	te becomes o form the d for ration the determ rees of info ttribute to o	s May Nee Meets colunale of the ination by ormation the denote final	d mns. the
1 miloute	Tationale			Meet	More Info	1410013
Soil				0	0	10

Hydrologic	0	0	11
Biotic	0	1	12

Site Notes: This site is in excellent condition. The timely summer precipitation events coupled with the removal of livestock in February/March of 2003, has more than given this site a chance to recover from the dry conditions affecting the general area. However with some winter precipitation, this site could show a progression toward an excellent multi-use area. There is however, a proposed oil and gas site in the vicinity which may increase vehicular traffic and compromise some habitat for wildlife, and conservative use by livestock.

## **Ground Cover Trends**



Shrub
LITTER
Grass
Forb

BGROUND

#### **Report Parameters**

 SITE NAME LIKE
 64053-BIG-E100

 ON/AFTER
 10/01/1982

 ON/BEFORE
 09/30/2003

# **Functional / Structural Groups**

#### **Report Parameters**

 SITE NAME LIKE
 64053-BIG-E100

 ON/AFTER
 10/01/1982

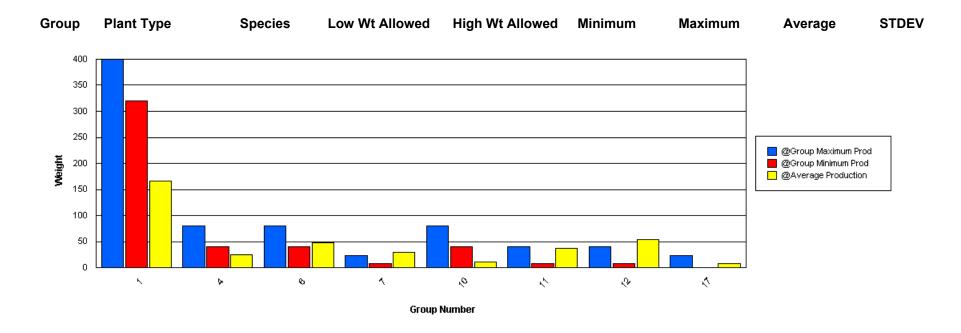
 ON/BEFORE
 09/30/2003

 MINURS TO CRAPH
 3

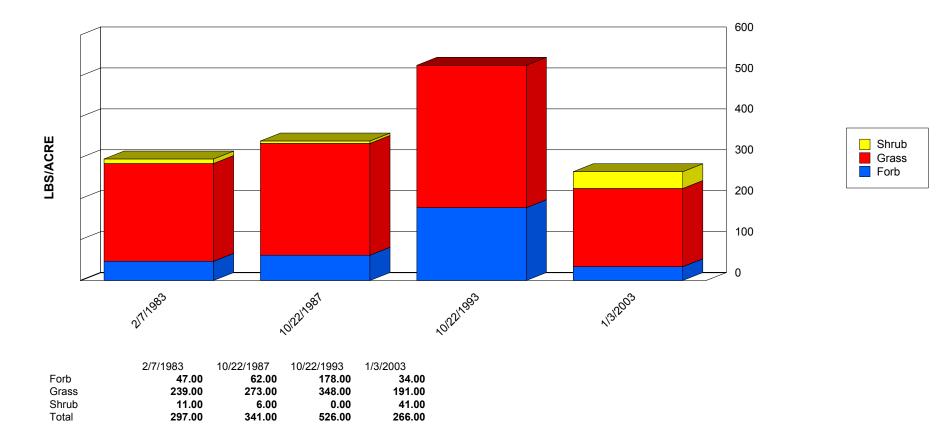
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY036NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	320	400	115.00	267.00	165.75	61.66
3	Grass	BOER4	40	80	1.00	5.00	2.67	1.70
4	Grass	SPNE	40	80	15.00	29.00	22.25	5.07
4	Grass	SPORO	40	80	2.00	3.00	2.50	0.50
6	Grass	ARIST	40	80	0.00	10.00	6.00	4.32
6	Grass	ERPU8	40	80	0.00	38.00	17.00	15.77
6	Grass	HIMU2	40	80	7.00	32.00	24.25	10.13
7	Grass	BOBR	8	24	1.00	27.00	11.00	11.43
7	Grass	BOGR2	8	24	1.00	8.00	5.33	3.09
7	Grass	BOSA	8	24	0.00	11.00	5.50	5.50
7	Grass	MUAR	8	24	0.00	14.00	7.00	7.00
7	Grass	TRPI2	8	24	0.00	1.00	0.50	0.50
10	Forb	COLDE	40	80	0.00	28.00	11.67	11.90
11	Forb	AAFF	8	40	0.00	77.00	29.00	30.85
11	Forb	DEPI	8	40	0.00	8.00	4.00	4.00
11	Forb	FACEL	8	40	0.00	7.00	3.50	3.50
12	Forb	PPFF	8	40	6.00	101.00	53.50	47.50
17	Shrub	GUSA2	0	24	5.00	11.00	7.33	2.62



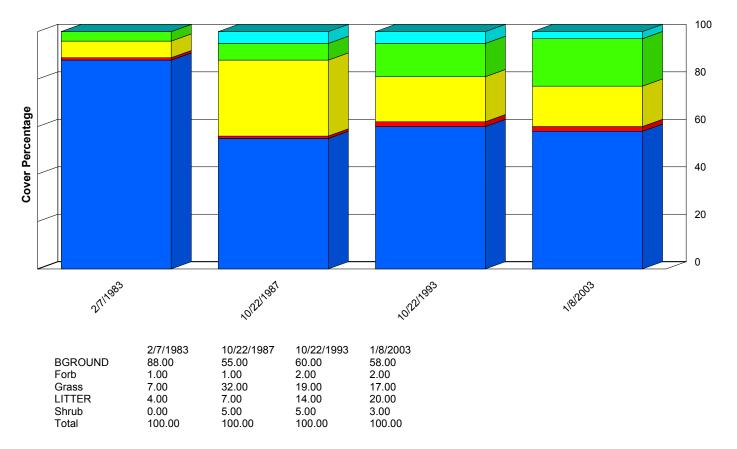
### **Production Lbs/Acre Trends**



#### **Report Parameters**

SITE NAME LIKE 64053-BIG-E100 ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

## **Ground Cover Trends**



Shrub
LITTER
Grass
Forb

BGROUND

#### **Report Parameters**

SITE NAME LIKE 64053-NORTH-E099 ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

# **Functional / Structural Groups**

#### **Report Parameters**

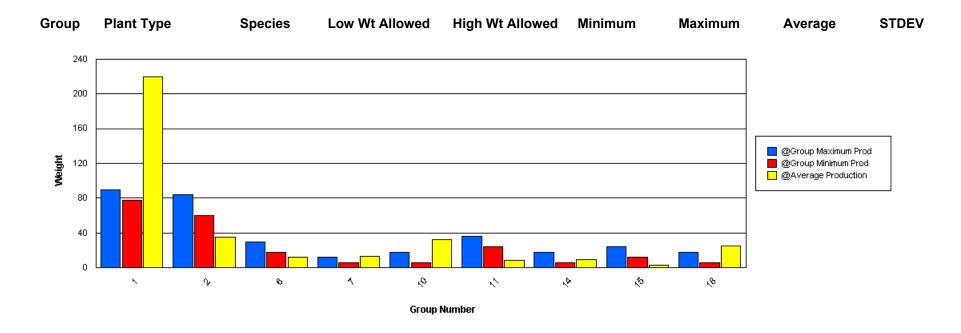
SITE NAME LIKE 64053-NORTH-E099

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

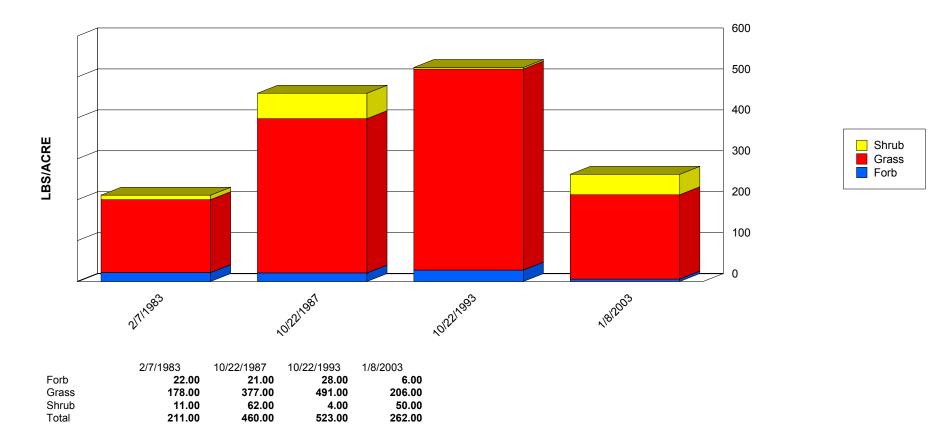
MIN LBS TO GRAPH 3

SELECTED ECOSITE 070BY066NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOBR	78	90	128.00	186.00	162.75	24.28
1	Grass	BOER4	78	90	13.00	156.00	56.50	58.70
2	Grass	BOGR2	60	84	1.00	22.00	8.00	9.90
2	Grass	SPNE	60	84	18.00	39.00	27.25	7.56
6	Grass	ARIST	18	30	0.00	27.00	12.50	11.32
7	Grass	ERPU8	6	12	0.00	7.00	3.75	2.59
7	Grass	SPCR	6	12	0.00	22.00	9.00	8.06
10	Grass	ENDE	6	18	1.00	2.00	1.50	0.50
10	Grass	MUAR2	6	18	0.00	63.00	21.33	29.47
10	Grass	PAOB	6	18	2.00	3.00	2.50	0.50
10	Grass	SCBR2	6	18	3.00	11.00	7.00	4.00
11	Forb	COLDE	24	36	0.00	17.00	8.50	8.50
12	Forb	ERIOG	0	18	0.00	0.00	0.00	0.00
13	Forb	ASTRA	0	6	0.00	1.00	0.50	0.50
14	Forb	PPFF	6	18	0.00	22.00	9.50	9.34
15	Forb	AAFF	12	24	0.00	6.00	2.25	2.28
15	Forb	DEPI	12	24	0.00	2.00	1.00	1.00
18	Shrub	GUSA2	6	18	4.00	40.00	21.50	14.57
18	Shrub	OPUNT	6	18	0.00	10.00	3.33	4.71



### **Production Lbs/Acre Trends**

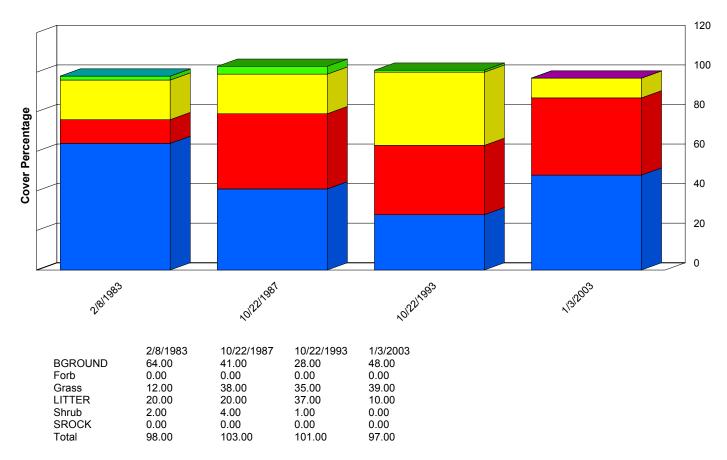


#### **Report Parameters**

SITE NAME LIKE 64053-NORTH-E099

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

## **Ground Cover Trends**



Forb SROCK

Shrub
LITTER
Grass
BGROUND

#### **Report Parameters**

SITE NAME LIKE 64053-RIVER-E098 ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

# **Functional / Structural Groups**

**Report Parameters** 

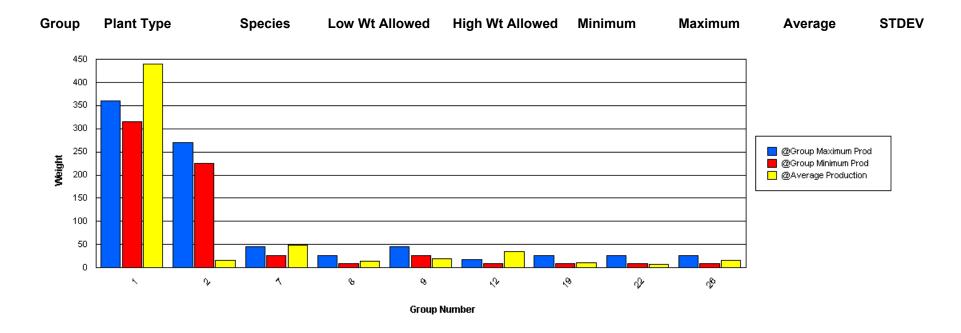
SITE NAME LIKE 64053-RIVER-E098

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

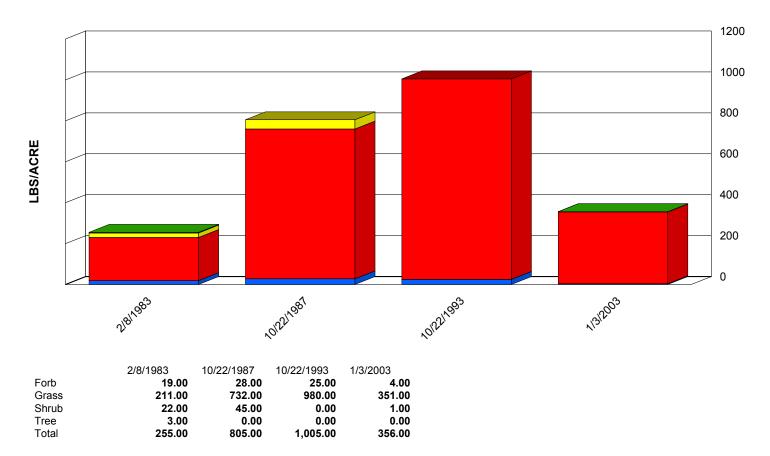
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	139.00	812.00	405.50	252.06
1	Grass	SCBR2	315	360	1.00	66.00	33.50	23.31
2	Grass	BOER4	225	270	0.00	41.00	16.25	16.68
7	Grass	ARIST	27	45	0.00	63.00	29.75	25.71
7	Grass	SPCR	27	45	2.00	44.00	18.75	17.80
8	Grass	PAOB	9	27	11.00	16.00	13.50	2.50
9	Grass	MUAR	27	45	0.00	34.00	12.25	12.93
9	Grass	MUAR2	27	45	1.00	11.00	6.00	5.00
9	Grass	MURE	27	45	0.00	2.00	1.00	1.00
12	Grass	PAHA	9	18	0.00	114.00	34.25	46.51
15	Grass	TRPI2	0	9	0.00	1.00	0.67	0.47
17	Grass	ERPU8	9	27	0.00	2.00	1.00	1.00
19	Forb	CROTO	9	27	0.00	3.00	1.67	1.25
19	Forb	DEPI	9	27	0.00	1.00	0.50	0.50
19	Forb	PENA	9	27	2.00	13.00	9.33	5.19
20	Forb	ASTRA	9	27	0.00	2.00	1.00	1.00
21	Forb	ERTE13	9	27	0.00	2.00	1.00	1.00
22	Forb	AAFF	9	27	0.00	28.00	8.00	11.60
24	Forb	SOEL	9	27	0.00	6.00	2.00	2.83
26	Shrub	GUSA2	9	27	1.00	22.00	14.67	9.67
26	Shrub	OPUNT	9	27	0.00	1.00	0.50	0.50
26	Tree	YUEL	9	27	0.00	3.00	1.50	1.50



### **Production Lbs/Acre Trends**



Tree

Shrub
Grass
Forb

### **Report Parameters**

SITE NAME LIKE 64053-RIVER-E098

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2003

